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QUERY CONTR	OL FORM			RTIS USE ONLY
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a. Serial No.	f. Foreign Priority	k. Print Claim(s)	p. PTO-1449	
b. Applicant(s)	g. Disclaimer	I. Print Fig.	q. PTOL-85b	
c. Continuing Data	h. Microfiche Appendix	m. Searched Column	r. Abstract	
d. PCT	i. Title	n. PTO-270/328	s. Sheets/Figs	
e. Domestic Priority	j. Claims Allowed	o. PTO-892	t. Other	

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i. Appendix	
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(original) The waveguide structure of claim s, wherein a taper angle of the interconnection structure is no greater than 0.4 degrees.

(original) The waveguide structure of claim s, wherein the EO polymer waveguide and the passive polymer waveguide are formed as rib structures.

(original) The waveguide structure of claim s, wherein the EO polymer waveguide has a higher refractive index that the passive polymer waveguide.

(original) The waveguide structure of claim s, wherein the passive polymer waveguide has a larger mode profile than the EO polymer waveguide.

18-19. (canceled)

20. (original) The waveguide structure of claim 8, wherein the passive polymer waveguide comprises a fluorinated polymer.

21. (original) The waveguide structure of claim 8, wherein the passive polymer waveguide comprises a fluorinated acrylate.

(new) A method of operably interconnecting an electrooptic (EO) polymer waveguide and a passive polymer waveguide, comprising:

providing a tapered electrooptic (EO) polymer waveguide interconnection structure between an EO polymer waveguide and a passive polymer waveguide, the passive polymer waveguide including a fluorinated acrylate.

23. (new) A waveguide structure, comprising: an electrooptic (EO) polymer waveguide;

a passive polymer waveguide including a fluorinated acrylate; and

a tapered EO polymer waveguide interconnection structure between the EO polymer

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14 24. (new) The waveguide structure of claim 23, wherein the EO polymer
waveguide and the passive polymer waveguide provide single mode propagation, and the
interconnection structure provides a coupling between the two waveguides without higher
order mode coupling.
16
16 25. (new) The waveguide structure of claim 23, wherein an interconnection loss
associated with the interconnection structure is less than 0.4 dB.
17
17 26. (new) The waveguide structure of claim 23, wherein the interconnection
structure is vertically tapered.
18
18 21. (new) The waveguide structure of claim 23, wherein a taper length of the
interconnection structure is 300 µm or more.
19
19 28. (new) The waveguide structure of claim 23, wherein a taper angle of the
interconnection structure is no greater than 0.4 degrees.
20 28. (new) The waveguide structure of claim 23, wherein the EO polyme
(new) The waveguide structure of claim 23, wherein the EO polyme
waveguide and the passive polymer waveguide are formed as rib structures.
21
2) 36. (new) The waveguide structure of claim 23, wherein the EO polyme
waveguide has a higher refractive index that the passive polymer waveguide.
22
14 31. (new) The waveguide structure of claim 23, wherein the passive polyme
waveguide has a larger mode profile than the EO polymer waveguide.
23
32. (new) The waveguide structure of claim 23, wherein the EO polymer
waveguide comprises a nonlinear chromophore.
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(new) The waveguide structure of claim 3/2, wherein the nonlinear